Abstract

REMOTE SCORING AND AGGREGATING SIMILARITY SEARCH ENGINE FOR USE

WITH RELATIONAL DATABASES

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The invention provides a system and method for defining a schema and sending a query to a

Similarity Search Engine to determine a quantitative assessment of the similarity between an

anchor record and at least one search record. The invention makes a similarity assessment in a

single pass through the target records having multiple relationship characteristics. The Similarity

10      Search Engine is a server configuration comprising a Gateway for command and response

routing, a Virtual Document Manager for document generation, a Search Manager for SQL

statement generation, and one or more Database Management Systems for data persistence and

retrieval, and access to User Defined Functions. By locating the scoring and aggregation

functions in remotely located User Defined Functions embedded within Database Management

15      Systems, network and Search Manager activity is greatly reduced. The system architecture

enables partitioned searches among multiple Database Management Systems for reducing search

times and network activity.